

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/587, 052  
Source: IFWP  
Date Processed by STIC: 08/08/2006

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IFWP

## RAW SEQUENCE LISTING

DATE: 08/08/2006

PATENT APPLICATION: US/10/587,052

TIME: 09:12:36

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 7 Helfrich, Barbara  
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 9 Lapadat, Razvan  
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 and  
 14 Methods Related Thereto  
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 C--> 18 <141> CURRENT FILING DATE: 2006-07-24  
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 19 <151> PRIOR FILING DATE: 2004-01-23  
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401 ggggtccgagn cgggggacag aaggggcaga gttttcatct tggagactaa agaataattg 10980
403 ttccctgact ctcaaccaca cttccncaat ncaggtgtac ctgtcccggc cgctgacctg 11040
405 cccgcagggc ctatatgagc tgatgcttcg gtgctggagc cgggagtctg agcagcgacc 11100
407 acccttttcc cagctgcacg ggttcctggc agaggatgca ctcaacacgg tgtgaatcac 11160
409 acatccagct gcccctccct caggagcgga tccaggggaa gccagtgaca ctaaaacaag 11220
411 aggcacacat ggcacctctg ccccttcccc tcccgacagc ccatcacctc taatagaggc 11280
413 agtgagactg caggctgggc ccaccaggg agctgatgcc ccttctcccc ttcttgaca 11340
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417 tcctgtggat gggatcctct ccaccacct ctagccatcc cttggggaag ggtggggaga 11460
419 aatataggat agacactgga catggcccat tggagcacct gggccccact ggacaacact 11520
421 gattcctgga cagggtggct cgccccagc ttctctctcc ctgtcacaca ctggacccca 11580
423 ctggctgaga atctgggggt gaggaggaca agaaggagag gaaaatgttt ccttgtgcct 11640
425 gctcctgtac ttgtcctcag cttgggcttc ttctcctcc atcacctgaa acactggacc 11700
427 tgggggtagc cccgccccag ccctcagtca cccccactt cccacctgca gtctttagc 11760
429 tagaacttct ctaagcctat acgtttctgt ggagtaaata ttgggattgg ggggaaagag 11820
431 ggagcaacgg cccatagcct tggggttgga catctctagt gtagctgcca cattgatttt 11880
433 tctataatca cttgggtttg tacatttttg gggggagaga cacagatttt tacactaata 11940
435 tatggaccta gcttgaggca attttaatcc cctgcactag gcaggtaata ataaaggttg 12000
437 agttttccac                                     12010
440 <210> SEQ ID NO: 2
441 <211> LENGTH: 987
442 <212> TYPE: DNA
443 <213> ORGANISM: Homo sapiens
445 <400> SEQUENCE: 2
446 cggggtatctg ctttcaatcc gccatcccat ggagcatggc atcgtcaagg attggaacga 60
448 catggaacgc atttggaat atgtctatct taaggaccag ctgcagactt tctcagagga 120
450 gcatcctgtg ctctgactg aggcgccttt maaccacga aaaaaccggg aacgagctgc 180
452 cgaagttttc ttcgagacct tcaatgtgcc cgctcttttc atctccatgc magcygtact 240
454 cagcctttac gctacaggca ggaccacagg ggtggtgctg gattctgggg atggrgtcac 300
456 ccattgctgtg cccatctatg agggctttgc catgccccac tccatcatgc gcatcgacat 360

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/587,052

DATE: 08/08/2006  
TIME: 09:12:37

Input Set : F:\Sequence\_Listing.txt  
Output Set: N:\CRF4\08082006\J587052.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 3479,5752,9161,9185,10557,10587,10622,10624,10639,10930  
Seq#:1; N Pos. 11006,11011  
Seq#:6; N Pos. 467,558  
Seq#:18; N Pos. 445,483,485,510,526,549,552,557  
Seq#:26; N Pos. 494,509  
Seq#:70; N Pos. 552  
Seq#:71; N Pos. 567,578,619,636  
Seq#:72; N Pos. 11,12,13,17,18  
Seq#:73; N Pos. 93  
Seq#:75; N Pos. 975  
Seq#:78; N Pos. 5453,5767,5776,5835,5869  
Seq#:79; N Pos. 2435,2436,2437,2438,2439,2440,2441,2442,2443,2444,3347,3348  
Seq#:79; N Pos. 3349,3350,3351,3352,3353,3354,3355,3356,3357,3358,3359,3360  
Seq#:79; N Pos. 3361,3362,3363,3364,3365,3366,3367,3368,3369,3370,3371,3372  
Seq#:79; N Pos. 3373,3374,3375,3376,3377,3378,3379,3380,3381,3382,3383,3384  
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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 08/08/2006  
PATENT APPLICATION: US/10/587,052      TIME: 09:12:37

Input Set : F:\Sequence\_Listing.txt  
Output Set: N:\CRF4\08082006\J587052.raw

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## VERIFICATION SUMMARY

DATE: 08/08/2006

PATENT APPLICATION: US/10/587,052

TIME: 09:12:37

Input Set : F:\Sequence\_Listing.txt

Output Set: N:\CRF4\08082006\J587052.raw

L:18 M:270 C: Current Application Number differs, Replaced Current Application No  
L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:3420  
M:341 Repeated in SeqNo=1  
L:734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:420  
M:341 Repeated in SeqNo=6  
L:2062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:420  
M:341 Repeated in SeqNo=18  
L:2914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:480  
L:6480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:540  
L:6513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:540  
M:341 Repeated in SeqNo=71  
L:6530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:0  
L:6565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:60  
L:6677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:960  
L:8534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:5400  
M:341 Repeated in SeqNo=78  
L:8719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:2400  
M:341 Repeated in SeqNo=79  
L:13035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:480  
L:13202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:180  
M:341 Repeated in SeqNo=110  
L:13612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:480  
L:13631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:60  
M:341 Repeated in SeqNo=113  
L:13738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:420  
M:341 Repeated in SeqNo=116  
L:13757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:0  
L:13982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:480  
L:14510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:600  
L:14710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:136 after pos.:0  
L:14761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137 after pos.:540  
M:341 Repeated in SeqNo=137  
L:14848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:480  
L:14883 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141 after pos.:600  
M:341 Repeated in SeqNo=141  
L:14914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:360  
M:341 Repeated in SeqNo=142  
L:14941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:180  
M:341 Repeated in SeqNo=143  
L:14972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:240  
M:341 Repeated in SeqNo=144  
L:19355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149 after pos.:300  
M:341 Repeated in SeqNo=149  
L:19413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:60  
L:19462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:600  
M:341 Repeated in SeqNo=152  
L:19526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154 after pos.:600

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/587,052

DATE: 08/08/2006

TIME: 09:12:37

Input Set : F:\Sequence\_Listing.txt

Output Set: N:\CRF4\08082006\J587052.raw

L:19586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:156 after pos.:600  
L:19613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:157 after pos.:360  
L:20289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:540  
L:20434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184 after pos.:0